

CellD

Val-Leu-Tyr-Gly-Asp-Val-Asn-Asp-Asp-Gly-Lys-Val-Asn-Ser-Thr-Asp-Leu-Thr-
Leu-Leu-Lys-Arg-Tyr-Val-Leu-Lys-Ala-Val-Ser-Thr-Leu-Pro-Ser-Ser-Lys-Ala-Glu-
Lys-Asn-Ala-Asp-Val-Asn-Arg-Asp-Gly-Arg-Val-Asn-Ser-Ser-Asp-Val-Thr-Ile-
Leu-Ser-Arg-Tyr-Leu-Ile-Arg-Val-Ile-Glu-Lys-Leu-Pro-Ile

CellS

Lys-Leu-Tyr-Gly-Asp-Val-Asn-Asp-Asp-Gly-Lys-Val-Asn-Ser-Thr-Asp-Ala-Val-
Ala-Leu-Lys-Arg-Tyr-Val-Leu-Arg-Ser-Gly-Ile-Ser-Ile-Asn-Thr-Asp-Asn-Ala-Asp-
Leu-Asn-Glu-Asp-Gly-Arg-Val-Asn-Ser-Thr-Asp-Leu-Gly-Ile-Leu-Lys-Arg-Tyr-Ile-
Leu-Lys-Glu-Ile-Asp-Thr-Leu-Pro-Tyr-Lys-Asn

FIGURE 1

Assembly of DNA fragment encoding dockerin do

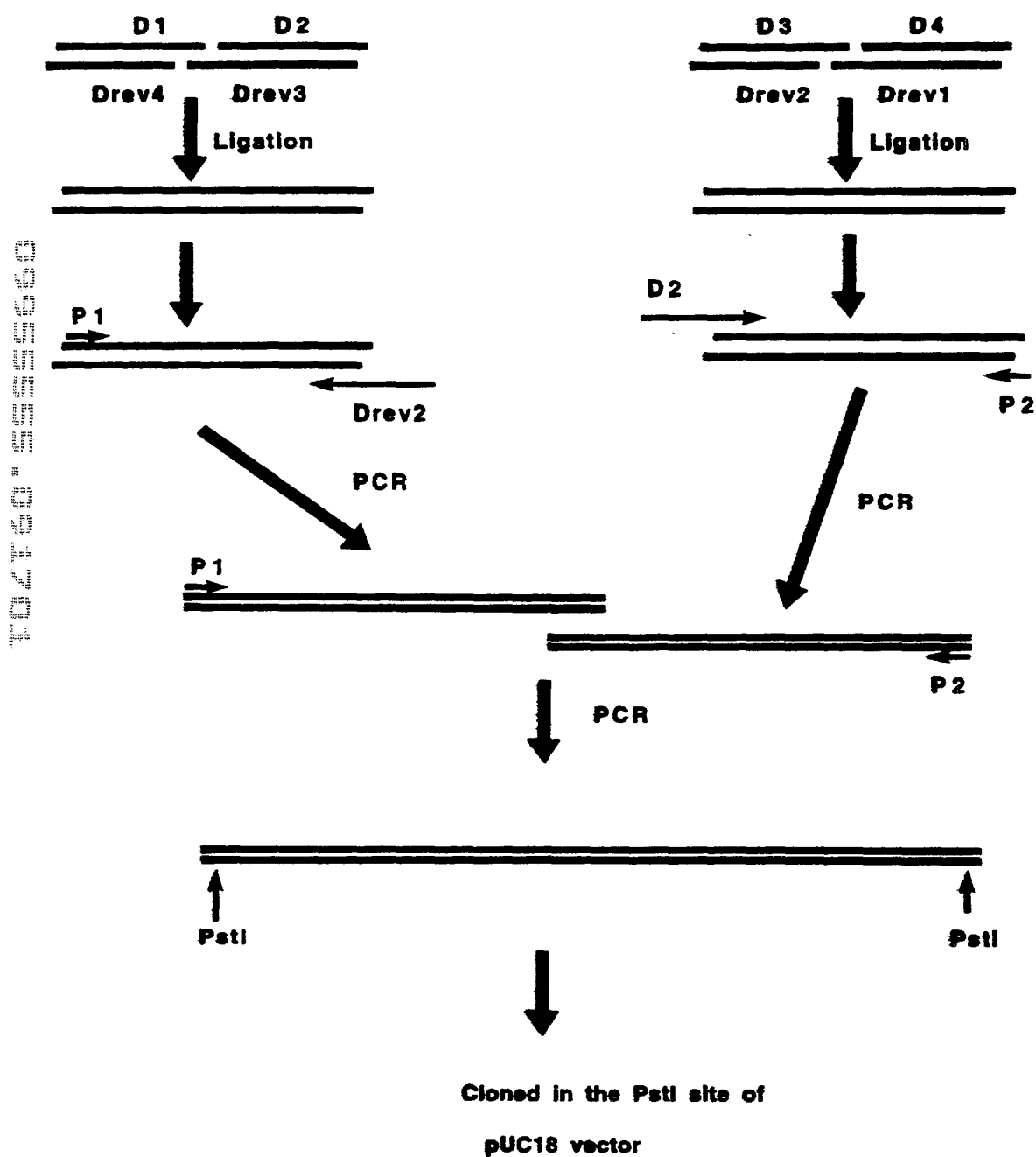


FIGURE 2

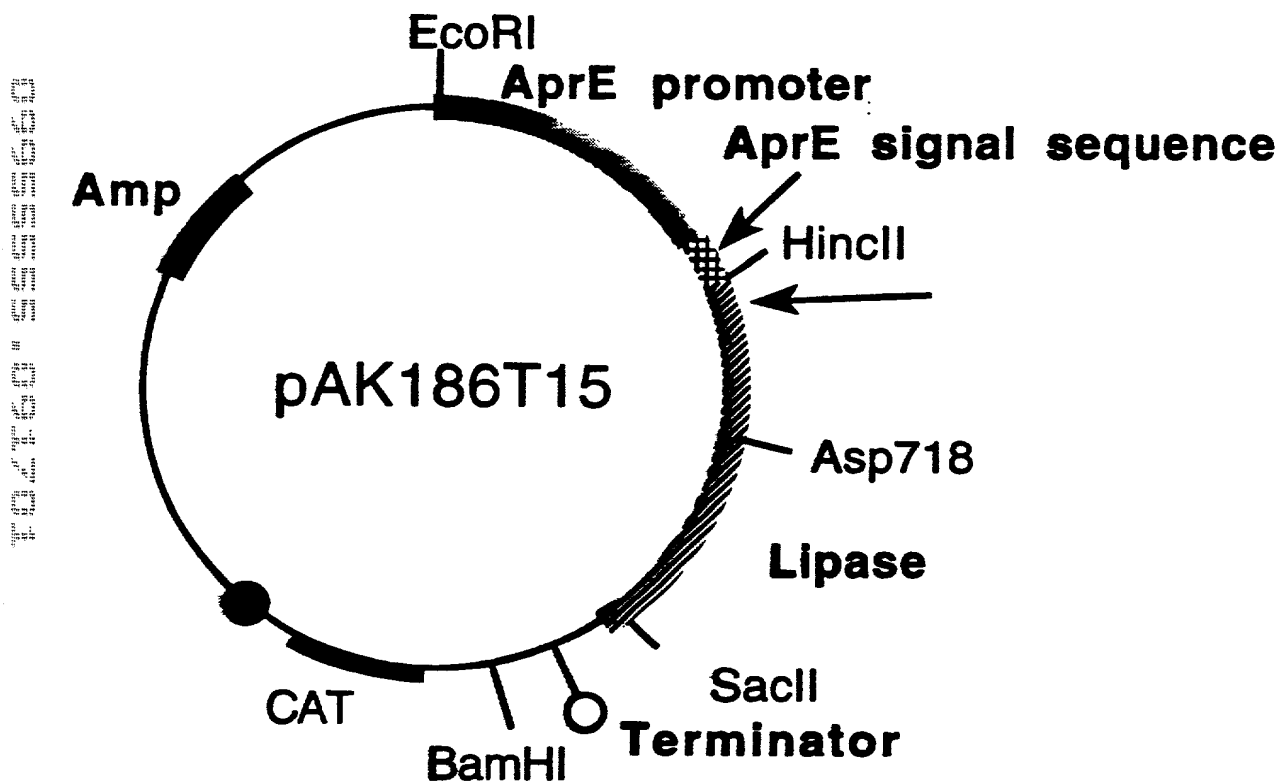


FIGURE 3

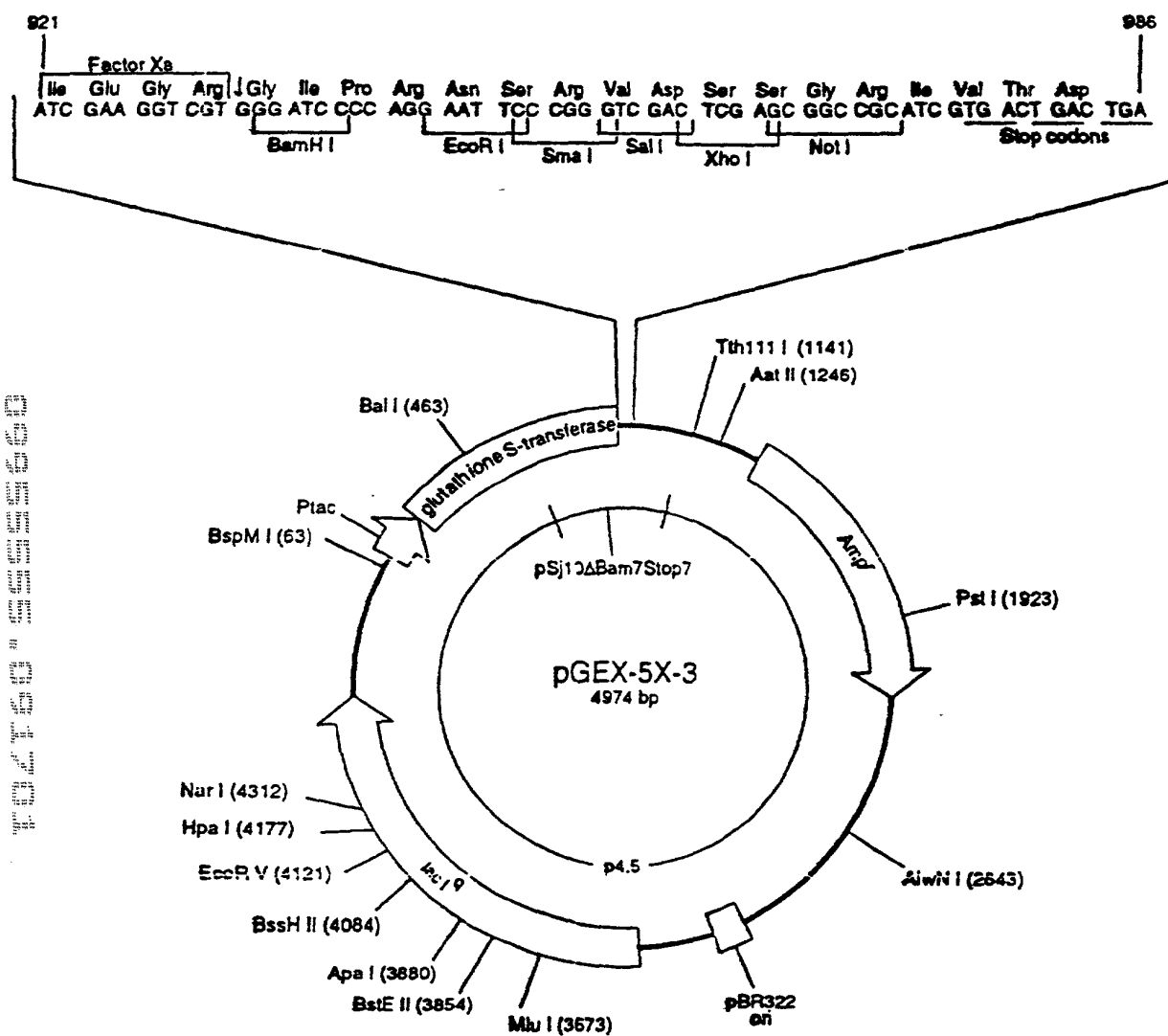
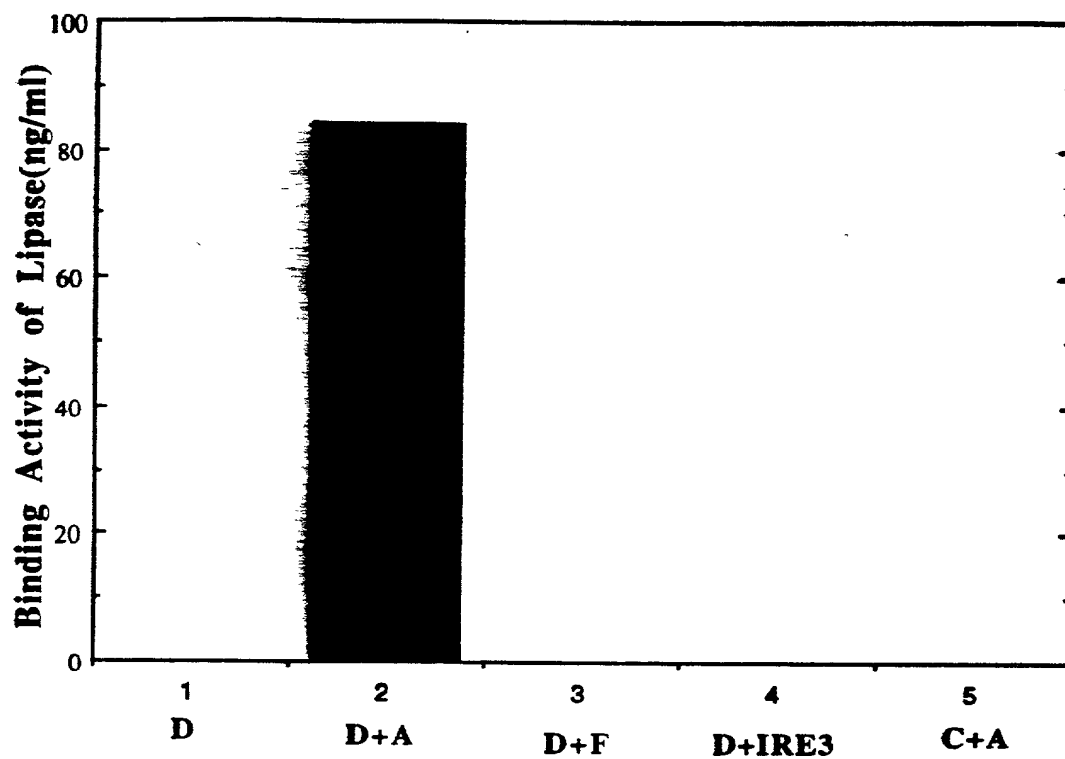


FIGURE 4



A—IRE1 + IRE 2 + CBD (10 μ g/ml)
F—IRE1 + IRE 2 + 60% CBD(10 μ g/ml)
IRE3 (10 μ g/ml)
D—Lip-celD (10 μ g/ml)
C—Lip-Con (10 μ g/ml)

FIGURE 5

Amino Acid sequence of first two internal repeats and CBC of Scaffoldin

Gly-Val-Pro-Ser-Lys-Gly-Met-Ala-Asn-Cys-Asp-Phe-Val-Leu-Gly-Tyr-Asp-Pro-Asn-Val-Leu-Glu-Val-Thr-Glu-Val-Lys-Pro-Gly-Ser-Ile-Ile-Lys-Asp-Pro-Asp-Pro-Ser-Lys-Ser-Phe-Asp-Ser-Ala-Ile-Tyr-Pro-Asp-Arg-Lys-Met-Ile-Val-Phe-Leu-Phe-Ala-Glu-Asp-Ser-Gly-Arg-Gly-Thr-Tyr-Ala-Ile-Thr-Gln-Asp-Gly-Val-Phe-Ala-Thr-Ile-Val-Ala-Thr-Val-Lys-Ser-Ala-Ala-Ala-Ala-Pro-Ile-Thr-Leu-Leu-Glu-Val-Gly-Ala-Phe-Ala-Asp-Asn-Asp-Leu-Val-Glu-Ile-Ser-Thr-Thr-Phe-Val-Ala-Gly-Gly-Val-Asn-Leu-Gly-Ser-Ser-Val-Pro-Thr-Thr-Gln-Pro-Asn-Val-Pro-Ser-Asp-Gly-Val-Val-Val-Glu-Ile-Gly-Lys-Val-Thr-Gly-Ser-Val-Gly-Thr-Thr-Val-Glu-Ile-Pro-Val-Tyr-Phe-Arg-Gly-Val-Pro-Ser-Lys-Gly-Ile-Ala-Asn-Cys-Asp-Phe-Val-Phe-Arg-Tyr-Asp-Pro-Asn-Val-Leu-Glu-Ile-Ile-Gly-Ile-Asp-Pro-Gly-Asp-Ile-Ile-Val-Asp-Pro-Asn-Pro-Thr-Lys-Ser-Phe-Asp-Thr-Ala-Ile-Tyr-Pro-Asp-Arg-Lys-Ile-Ile-Val-Phe-Leu-Phe-Ala-Glu-Asp-Ser-Gly-Thr-Gly-Ala-Tyr-Ala-Ile-Thr-Lys-Asp-Gly-Val-Phe-Ala-Lys-Ile-Arg-Ala-Thr-Val-Lys-Ser-Ser-Ala-Pro-Gly-Tyr-Ile-Thr-Phe-Asp-Glu-Val-Gly-Gly-Phe-Ala-Asp-Asn-Asp-Leu-Val-Glu-Gln-Lys-Val-Ser-Phe-Ile-Asp-Gly-Gly-Val-Asn-Val-Gly-Asn-Ala-Thr-Pro-Thr-Lys-Gly-Ala-Thr-Pro-Thr-Asn-Thr-Ala-Thr-Pro-Thr-Lys-Ser-Ala-Thr-Ala-Thr-Pro-Thr-Arg-Pro-Ser-Val-Pro-Thr-Asn-Thr-Pro-Thr-Asn-Thr-Pro-Ala-Asn-Thr-Pro-Val-Ser-Gly-Asn-Leu-Lys-Val-Glu-Phe-Tyr-Asn-Ser-Asn-Pro-Ser-Asp-Thr-Thr-Asn-Ser-Ile-Asn-Pro-Gln-Phe-Lys-Val-Thr-Asn-Thr-Gly-Ser-Ser-Ala-Ile-Asp-Leu-Ser-Lys-Leu-Thr-Leu-Arg-Tyr-Tyr-Tyr-Thr-Val-Asp-Gly-Gln-Lys-Asp-Gln-Thr-Phe-Trp-Cys-Asp-His-Ala-Ala-Ile-Ile-Gly-Ser-Asn-Gly-Ser-Tyr-Asn-Gly-Ile-Thr-Ser-Asn-Val-Lys-Gly-Thr-Phe-Val-Lys-Met-Ser-Ser-Ser-Thr-Asn-Asn-Ala-Asp-Thr-Tyr-Leu-Glu-Ile-Ser-Phe-Thr-Gly-Gly-Thr-Leu-Glu-Pro-Gly-Ala-His-Val-Gln-Ile-Gln-Gly-Arg-Phe-Ala-Lys-Asn-Asp-Trp-Ser-Asn-Tyr-Thr-Gln-Ser-Asn-Asp-Tyr-Ser-Phe-Lys-Ser-Ala-Ser-Gln-Phe-Val-Glu-Trp-Asp-Gln-Val-Thr-Ala-Tyr-Leu-Asn-Gly-Val-Leu-Val-Trp-Gly-Lys-Glu-Pro-Gly-Gly-Ser-Val-Val-Pro-Ser-Thr-Gln-Pro-Val-Thr-Thr-Pro-Pro-Ala-Thr-Thr-Lys-Pro-Pro-Ala-Thr-Thr-Lys-Pro-Pro-Ala-Thr-Thr-Ile-Pro-Pro-Ser-Asp-Asp-Pro-Asn-Ala-Ile-Lys-Ile-Lys-Val-Asp-Thr-Val-Asn-Ala-Lys-Pro-Gly-Asp-Thr-Val-Asn-Ile-Pro-Val-Arg-Phe-Ser

FIGURE 6